

Chimie Organique Série n°5

Exercice 1:

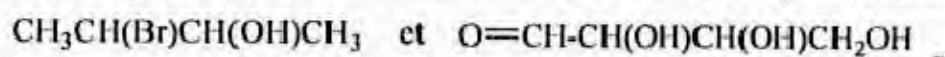
Le plomb Pb appartient à la famille du carbone.

Dans la molécule de tétraméthylplomb PbC_4H_{12} , l'atome de plomb n'est lié qu'à des atomes de carbone.

- 1) Donner la formule semi-développée de la molécule de tétraméthylplomb.
- 2) Donner la représentation de Cram de cette molécule.

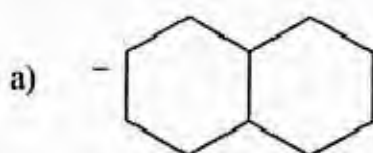
Exercice 2:

Représenter selon CRAM, FISCHER et NEWMANN les composés suivants:

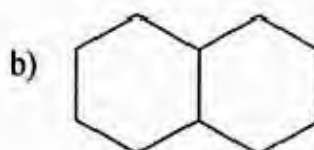


Exercice 3:

Ecrire les composés suivants en projection de NEWMANN:



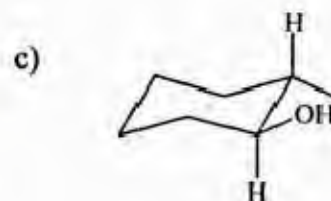
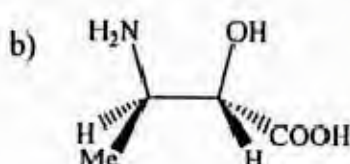
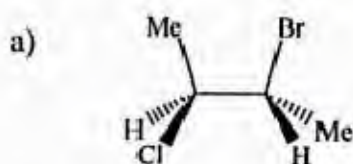
Chaise-chaise



Bateau-bateau

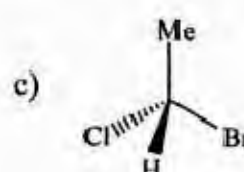
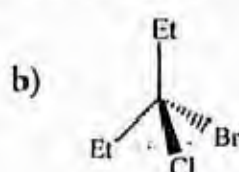
Exercice 4:

Dessiner les projections de Newman des molécules:



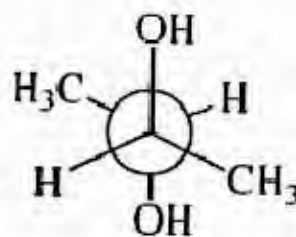
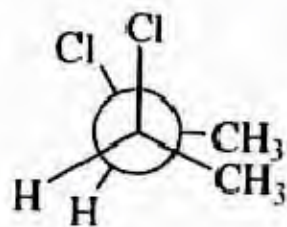
Exercice 5:

Dessiner les projections de Fischer des molécules:



Exercice 6:

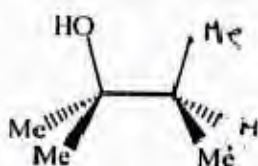
Représenter les molécules 1 et 2 dans leur conformation la plus stable.



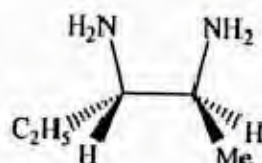
Exercice 7:

Représenter selon Newman :

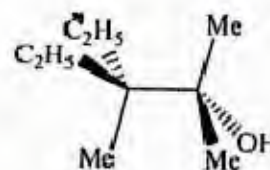
- Les molécules 1, 2, et 3 en conformation synclinale. (5/60)
- Les molécules 4, 5 et 6 en conformation anticlinale. (4/60)



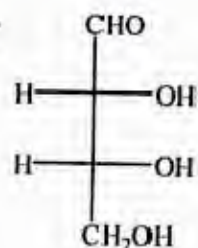
1



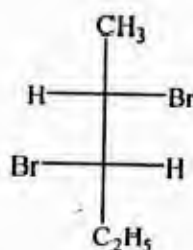
2



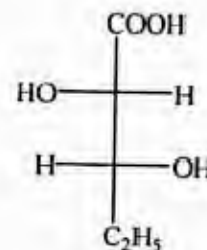
3



4



5



6

Données:

Synpériplanaire = Totalement éclipsée

Antipériplanaire = Décalée

Synclinale = Gauche

Anticlinale = Semi-éclipsée

Exercice 8:

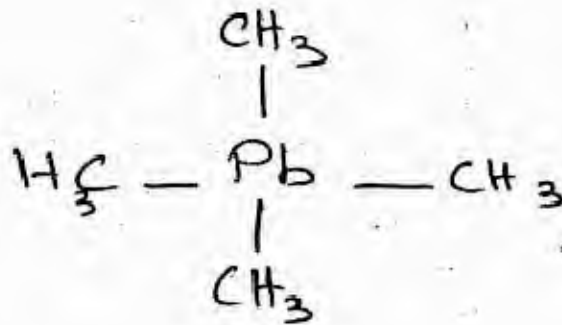
Présenter tous les conformères et donner la courbe de conformation des molécules suivantes:

- 1) 1,2-dichloroéthane.
- 2) 2-chloroéthanol.

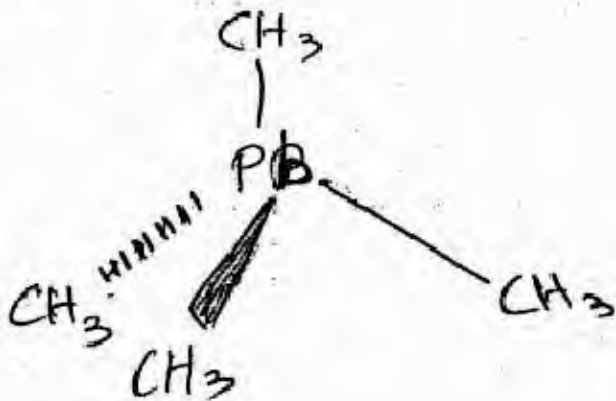
Serie 5

EX 1:

1-

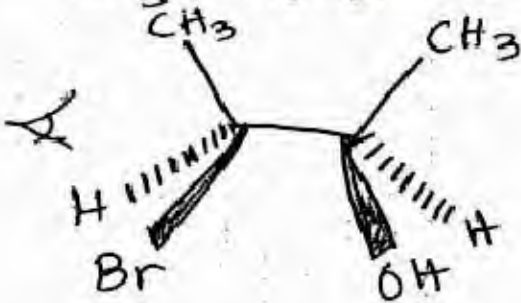
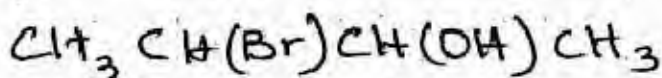


2-

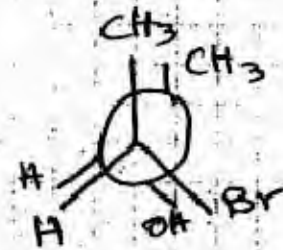


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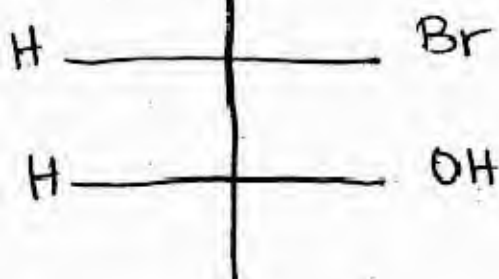
1- Cram

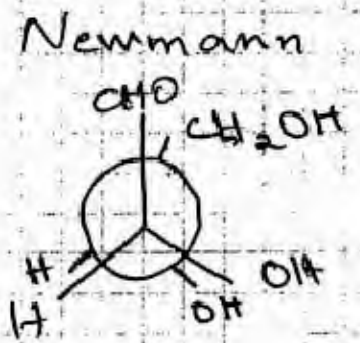
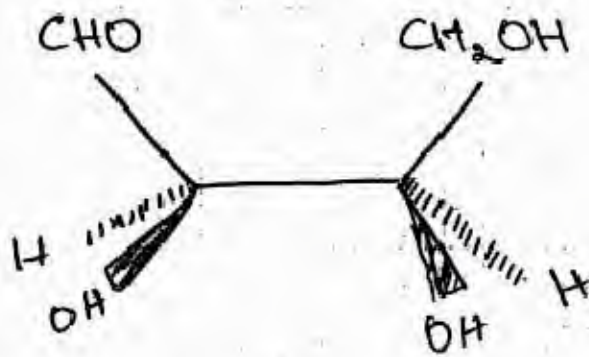
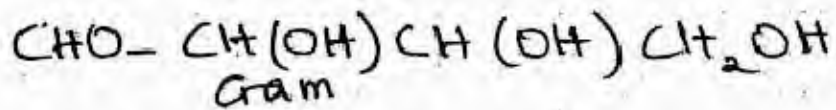


Newmann

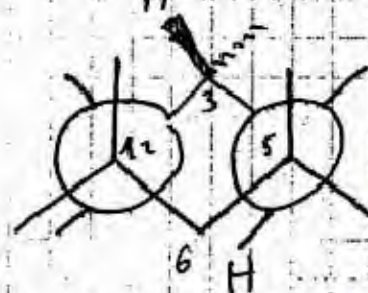
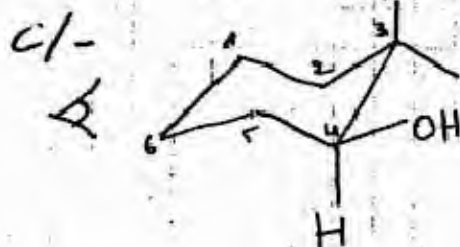
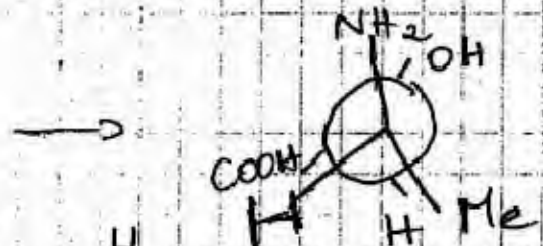
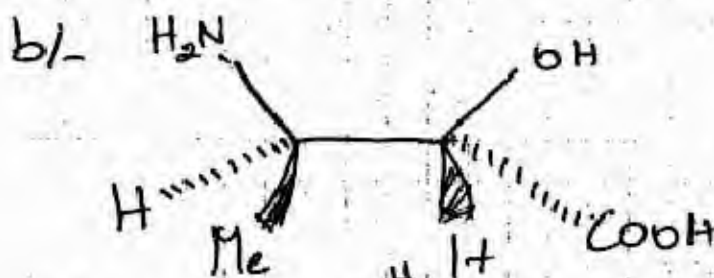
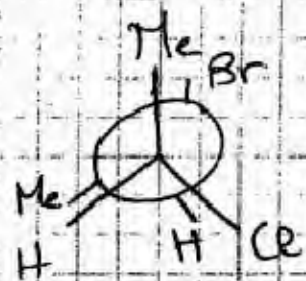
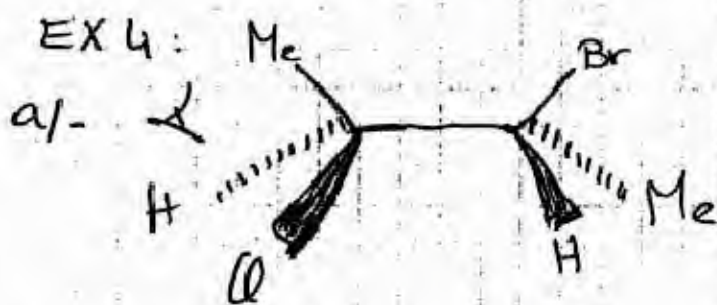
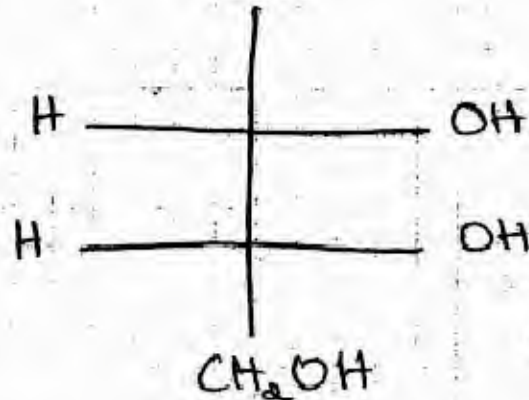


Fischer
CH₃



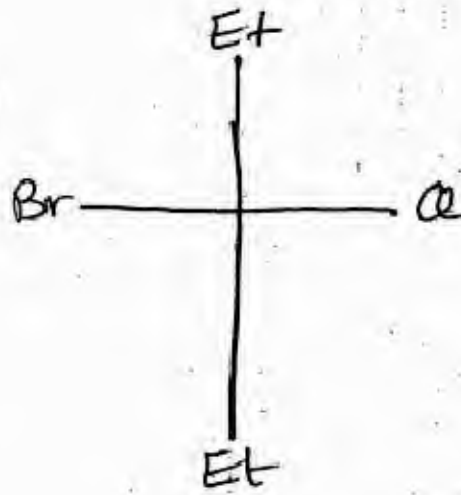
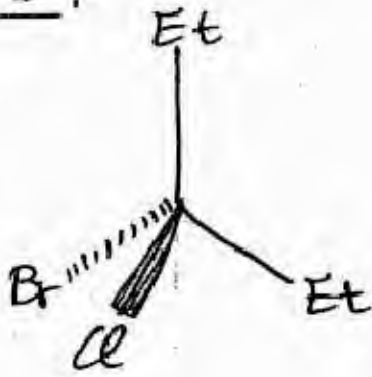


Fischer

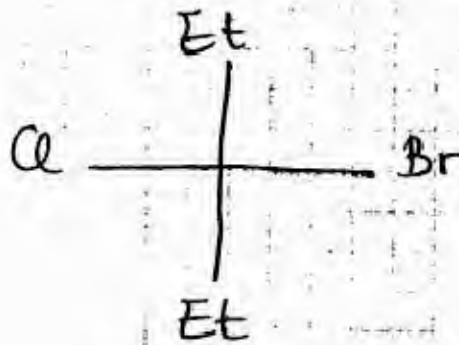
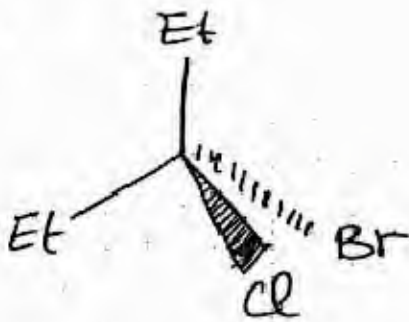


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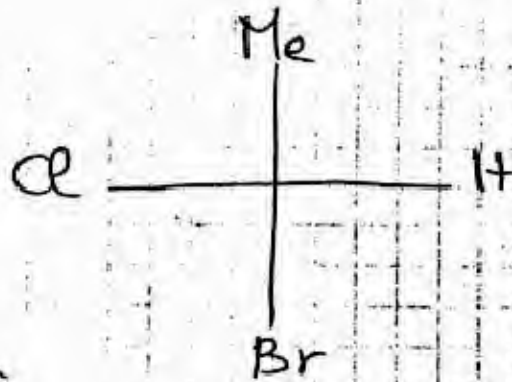
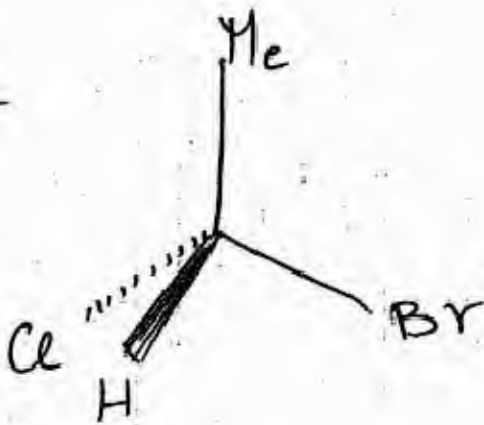
a/-



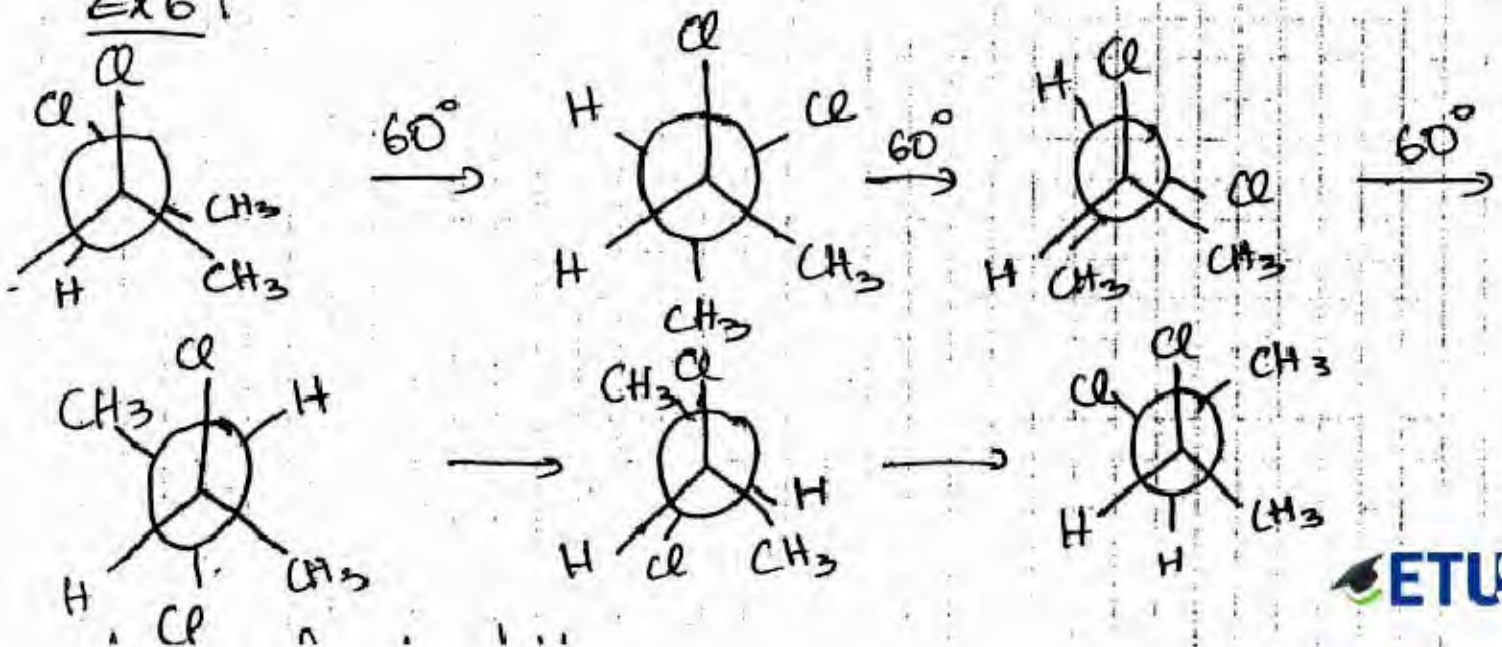
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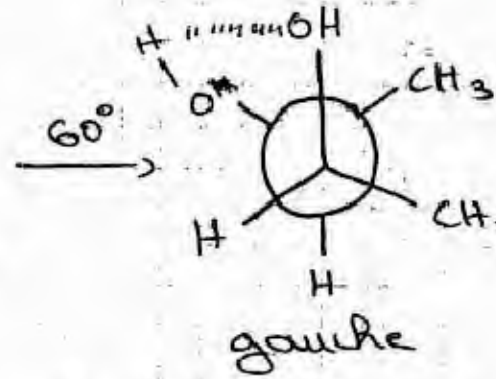
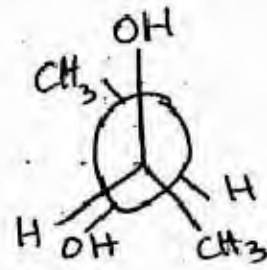
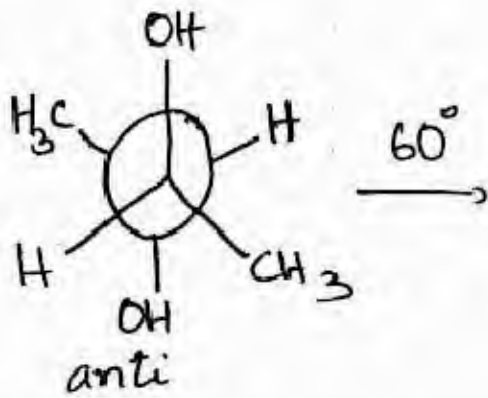


c/-



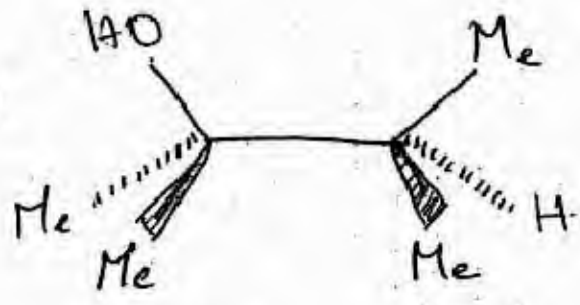
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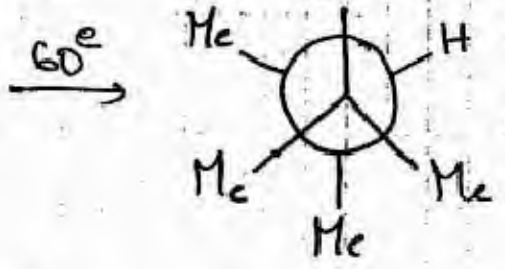
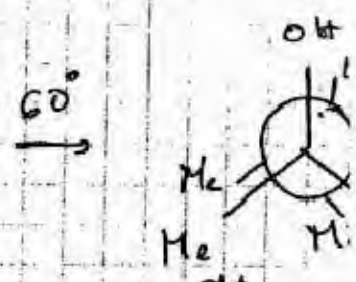
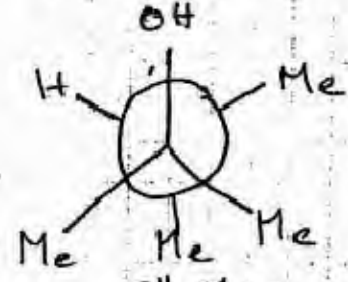
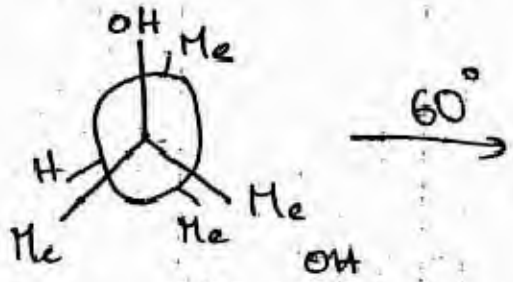


la forme la plus stable est gauche

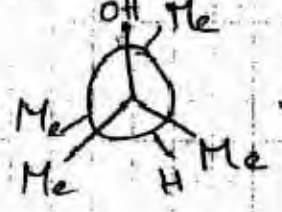
EXE :



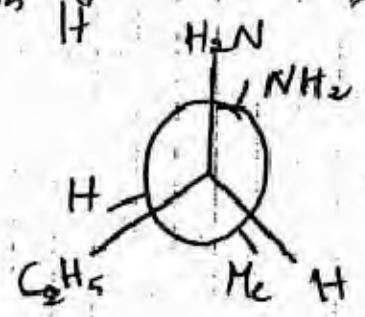
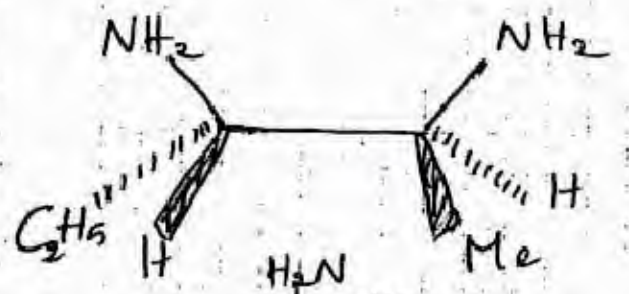
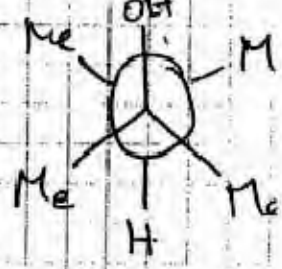
gauche partiellement décalée



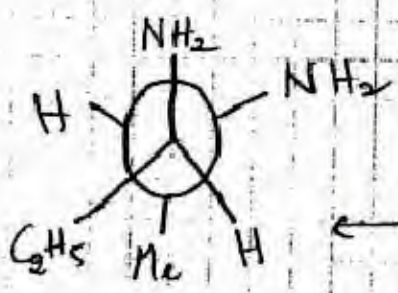
60



60

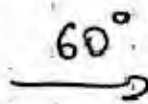
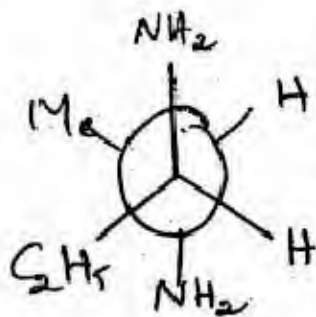
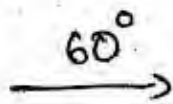
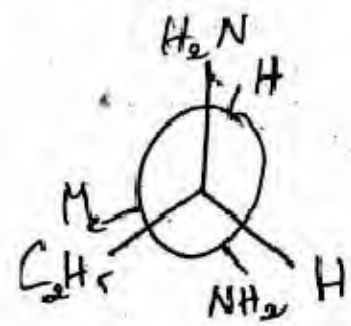


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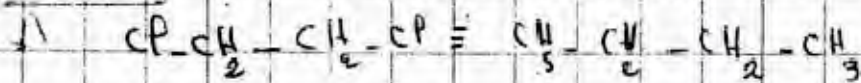


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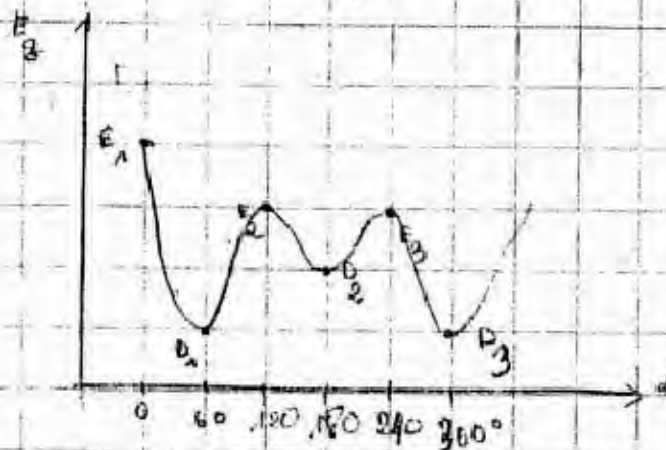
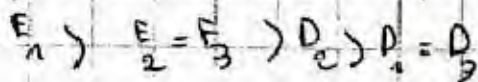
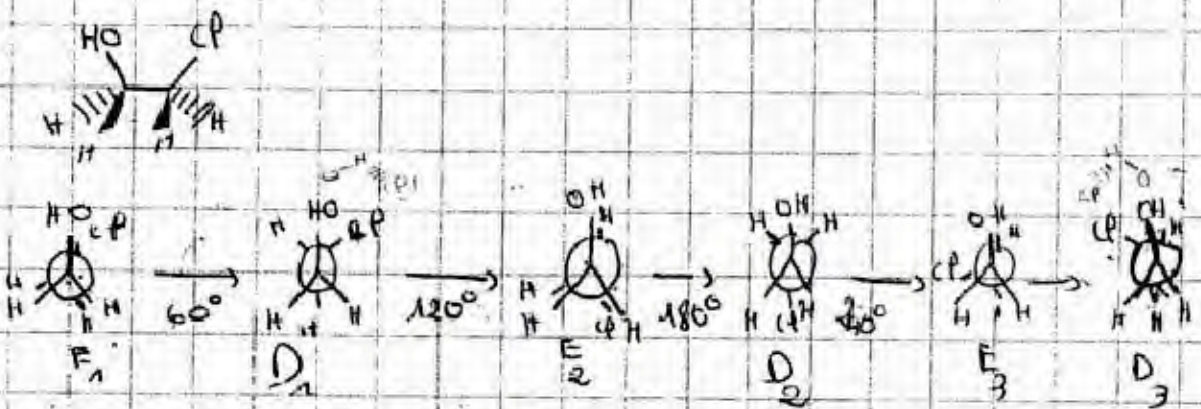
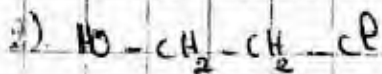
gauche



Exercices:



la même que le butane.





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